

AMENDMENTS TO THE TITLE

Replace the title with:

~~Method for color correction in printing machines~~

METHOD FOR CONTROLLING COLOR ON PRINTING MACHINES

AMENDMENTS TO THE SPECIFICATION

At page 1, before the title, delete the following:

~~Method for color correction in printing machines~~

~~Patent application~~

~~MAN Roland Druckmaschinen AG~~

~~Mühlheimer Straße 341~~

~~63075 Offenbach~~

~~Title of the invention~~

~~Method for color correction in printing machines~~

At page 1, after the title, delete:

~~Description~~

At page 1, after paragraph [0001], delete:

~~State of the art~~

At page 1, after paragraph [0001] add the following section title:

BACKGROUND OF THE INVENTION

Replace paragraph [0002] with:

[0002] For proper execution of a print order it is necessary, among other things, to transfer the color index set for a product to be printed in a so called printing prepress stage correctly to a print material during the actual printing. For this purpose, usually the four scale colors, black, cyan, magenta, and yellow, as well as optionally also special colors are transferred in the form of halftone dots to the print material for autotype combination printing. The colors involved in autotype combination printing, namely the scale colors and the special colors, are also designated as process colors. For example, when printing, the halftone dots of the different colors can differ

in size and the halftone dots of the different colors can be deposited on the print material with mutual overlap. From this it follows that the creation of a desired color effect is dependent on various factors and therefore is extremely complex.

After paragraph [0003], delete:

~~Problem of the invention~~

After paragraph [0003] insert the following title:

SUMMARY OF THE INVENTION

Replace paragraphs[0004] – [0007] with:

[0004] Starting from this background, the present invention ~~is based on the problem of creating~~ provides a novel method for color correction in printing machines.

~~[0005] This problem is solved by a method for color correction in printing machines according to Claim 1.~~ According to the invention, the method comprises the following steps: a) for color correction, in a first step or in a first stage of the method, only the color supply of a single color, namely of a single process color, is changed, wherein here the effect of the change in the color supply of this one process color on the color values of a color spot to be measured is determined, with a corresponding chromaticity position being stored as a measurement value or measurement value set, and with this method being executed separately one after the other for each individual process color involved in the autotype combination printing; b) for color correction, in a second step or in a second stage of the method, all of the measurement values determined and stored in connection with step a) for all of the process colors involved in the autotype combination printing are balanced with each other, such that for further color correction, a few or all of the process colors involved in the printing can be set simultaneously.

[0006] In comparison with the methods known from the state of the art, the method according to the invention for color correction provides a plurality of advantages. It is not necessary for the method according to the invention to determine the so called area coverage, because this coverage is considered ~~intrinsic~~ intrinsic to the method according to the invention. Furthermore, the method according to the invention touches on the measurement of so called

standard color values, which enables a significant reduction of the quantities of data to be handled in comparison with the measurement of so called spectral color values. Furthermore, with the method according to the invention, in addition to the scale colors, also special colors and thus all of the process colors involved in the autotype combination printing are corrected reliably. The color black can also be corrected reliably, like all of the other process colors.

~~[0007] Preferred improvements of the invention result from the subordinate claims and the subsequent description.~~

After paragraph [0007], delete:

~~Examples~~

Insert the following title after paragraph [0007]

BRIEF DESCRIPTION OF THE DRAWINGS

Replace paragraphs [0009] and [0010] with:

[0009] Figure 1, shows a signal flow chart for explaining the method according to the invention for color correction in printing machines; and

[0010] Figure 2, shows a representation of the chromaticity position in the so called lab system for explaining the method according to the invention for color correction in printing machines.

After paragraph [0010], insert the following title:

DETAILED DESCRIPTION OF THE EMBODIMENT

Replace paragraph [0012] with:

[0012] In the method according to the invention for color correction, during the printing at least one color spot is measured online. Below In the following description, it shall be assumed that only one such color spot is measured, with this color spot involving a so called image important point of the print order.

After paragraph [0027] delete:

~~List of reference symbols~~

~~10 — Stage~~

~~11 — Stage~~

~~12 — Block~~

~~13 — Block~~

~~14 — Block~~

~~15 — Block~~

~~16 — Block~~

~~17 — Block~~

~~18 — Chromaticity position~~

~~19 — Chromaticity position~~

~~20 — Color vector~~